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MATERIAL SAFETY DATA SHEET

Thioacetamide, reagent ACS, 99+%

Section 1 - Chemical Product and Company Identification

MSDS Name: Thioacetamide, reagent ACS, 99+%

Catalog Numbers: T/0980/46

Synonyms: Ethanethioamide; TAA; Thiacetamide; Thioacetimidic acid; Acetothioamide.

Company Identification: Fisher Scientific UK
Bishop Meadow Road, Loughborough
Leics. LE11 5RG

For information in Europe, call: (01509) 231166

Emergency Number, Europe: 01509 231166

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
62-55-5	Thioacetamide	> 99	200-541-4

Hazard Symbols: T



Risk Phrases: 45 22 36/38 52/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes and skin. May cause cancer. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be absorbed through the skin in harmful amounts. If absorbed, causes symptoms similar to those of ingestion.

Ingestion: Harmful if swallowed. May cause liver damage. Contact with stomach acid may liberate toxic hydrogen sulfide gas. Hydrogen sulfide affects the nervous system producing headache, dizziness, excitement, staggering gait, diarrhea, and painful or difficult urination. H₂S doesn't combine with hemoglobin; its asphyxiant action is due to paralysis of the respiratory center

Inhalation: May cause respiratory tract irritation. May cause effects similar to those described for ingestion.

Chronic: Possible cancer hazard based on tests with laboratory animals. Chronic ingestion may cause liver damage. When administered in the diet, thioacetamide induced hepatocellular carcinomas in mice of both sexes, hepatocellular neoplasms in male rats, and bile duct or cholangiocellular neoplasms in rats of both sexes.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get medical aid.

- Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
- Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- Notes to Physician:** Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

- General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Runoff from fire control or dilution water may cause pollution.
- Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

Section 6 - Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. U.S. regulations require reporting spills and releases to soil, water and air in excess of reportable quantities.

Section 7 - Handling and Storage

- Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.
- Storage:** Store in a cool, dry place. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 62-55-5:

Personal Protective Equipment

- Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white
Odor: odor of mercaptans - weak odor
pH: Not available
Vapor Pressure: Negligible.
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 111 - 114 deg C
Autoignition Temperature: Not available.
Flash Point: Not applicable.
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: 16.3 G/100 ML (25°C)
Specific Gravity/Density:
Molecular Formula: C₂H₅NS
Molecular Weight: 75.13

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Dust generation.
Incompatibilities with Other Materials Strong oxidizing agents, strong acids, strong bases.
Hazardous Decomposition Products Carbon monoxide, oxides of nitrogen, oxides of sulfur, carbon dioxide, hydrogen sulfide, acetonitrile.
Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 62-55-5: AC8925000
LD50/LC50: RTECS:
CAS# 62-55-5: Oral, rat: LD50 = 301 mg/kg;
Carcinogenicity: Thioacetamide - California: carcinogen, initial date 1/1/88 NTP: Suspect carcinogen
IARC: Group 2B carcinogen
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Water flea Daphnia: 17400 ug/L; 48 hr.; LC50

Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority for advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
Hazard Class:			

UN Number:
Packing
Group:

USA RQ: CAS# 62-55-5: 10 lb final RQ; 4.54 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 45 May cause cancer.

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 62-55-5: 2

Canada

CAS# 62-55-5 is listed on Canada's DSL List

US Federal

TSCA

CAS# 62-55-5 is listed on the TSCA
Inventory.

Section 16 - Other Information

MSDS Creation Date: 12/12/1997

Revision #8 Date 2/15/2008

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